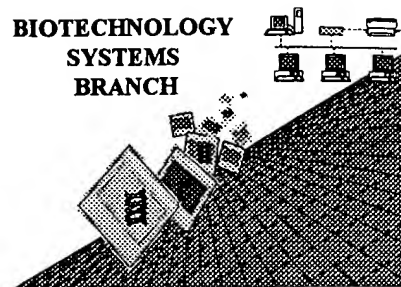


Stale

RAW SEQUENCE LISTING **ERROR REPORT**



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

#5
12/19/98

Application Serial Number: 09/105,117A

Art Unit / Team No. : 1652

Date Processed by STIC: 11/30/98

THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.

PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,**
- 2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY**

THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.

IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:

ARTI SHAH 703-308-4212

09/105/117 A

new format

<110> Vrjic, Marina
Eggeling, Lothar
Sahm, Harmann

Does Not Comply
Corrected Diskette Needed

<120> PROCESS FOR THE MICROBIAL PRODUCTION OF AMINO ACIDS BY BOOSTED
ACTIVITY OF EXPORT CARRIERS

<130> FJ 122 - sequence listing

<140> US 09/105,117

<141> 1998-06-17

<150> PCT/EP96/02485
<141> 1998-06-17
<151>

*This is not the Current Application Number or
Filing date.*

<150> PCT/DE96/02485
<151> 1996-12-18

*Change the numerical
identifier to <140> and
<141>*

<150> 195 48 22.0
<151> 1995-12-22

<160> 3

<170> MS DOS text only - saved from Word 6.0

<210> 1
<211> 290
<212> DNA
<213> Corynebacterium glutamicum

*Please consult new
Sequence Rules
for valid, acceptable
format.*

Table 1 & Delete

<400> 1 *add mandatory numerical identifier and response*

MNPIQLDTLL SIIDEGSFEG ASLALSISPS AVSQRVKALE HHVGRVLVSR 50

delete

TOPAKATEAG EVLVQAARKM VLLQAETKAQ LSGRLAEIPL TIAINADSL 100

Helix-Turn-Helix-Motif

TWFPPVFNEV ASWGGATLTL RLEDEAHTLS LLRRGDVLGA VTREANPVAG 150

CEVVELGTMR HLAIATPSLR DAYMVDGKLD WAAMPVLRFG PKDVLQDRDL 200

DGRVDGPVGR RRVSIIVPSAE GFGEAIRRGL GWGLLPETQA APMLKAGEVI 250

LLDEIPIDTP MYWQRWRLES RSLARLTDV VDAIEGLRP 290

*These appear
to be one-letter
amino acids.
See 1.822 of
new Sequence Rules
for valid, acceptable
bases (put in
lower-case).*

<210> 2
<211> 2374
<212> DNA
<213> Corynebacterium glutamicum

Table 2

<400> 2 GGTAACGAC TTCCACAATG AGACGGACCG GGTAAAGGACGCCCGCTTCTTCACTTTTG

delete periods

insert space

space

(.)

GGACTTGGA AAGTCTTCAT TGATTCCGGC GTTAGGGAGC TAACGACGTA GTTGCTGCCG

-LysG

*Amino acids
are numbered
below every
5 amino
acids and are
represented by
three letters.*

1. Use lower-case letters for bases.
2. Number bases at the right margin of each line - cumulative totals
3. Insert a space after every 10 bases, in a non-coding part of a nucleic acid sequence.

Invalid format

09/105,117A

P R

CAGACACTCA GATCGATCTC TAGATCTAAG GTCCGCGGTA GCAACGGTTA TGTAGCCACA

D T L R A L S R S E L

CAGTTACCCA TAGAGTAGCT CCTCCTAGTG AAGAGGACGA AAATCGTACC CTCGTCTGAAC

D I P I E D L L I V E

CCAAAGCCCT TCTTCAGGGG TTGGTTCCGG AGCCGCTTAA CGGAGTGGTT TTGGAAGGCG

T E P L L G W G L G R R

GCTGCCCTGT TACCTATGCG CGGACGCGGG GTGTCCTGGT AGCTGCGCGG GCAGGTCCAG

S P V I S V R R R G V

TGCCAGAACT TCGTGTAGAA ACCCTGGCTT CGCATTCTGC CCGTAGCGTC GGGTTAGATC

R D Q L V D K P G F R L

AAAGGGTAGT TGGTACATCC GTAGGGCGTT ACTCCCCAA CGTTACCGGT TCACCGCGTA

K G D V M Y A D R L S P

CCAAGGTTCA AGATGATGAA GTGTAGGGCG GTGCCCTAAT CGAAGTGCCC AATGGCGAGG

T G L E V V E C G A V P

ATTTTGTAGA GGTGCGGCGT CGTTCCTATT ACACACGCGA AGTAGAAGGT TCGCGTCGCA

L V D G R R L L S L T H

CTCGCAACGA GGTGGGGTTC TTCGATGGAG CAACTTGTGC CCTCCTTTGG TACACCTATC

L T A G G W S A V E N F

GCTTAGACGC AACTACCGCT ACCAATTGCC CTAAAGTCGT TCCGCAGGTC TATCAACGCG

S D A N I A I T L P I

AAATCAAAGA CGAACGTCGT TGTGGTAAAA GGCGCGACGA ACGTGTTCCT GAAGTGGGCG

K T E A Q L L V M K R A

AAGCCAACGA AACCGGCCAA CCCACGCGCT ATGGTTGTGA GCTGGGTGCA CTACGAGCTC

E T A K A P Q T R S V

TCGAAATTGC GCGACTGAGT GCGGGCTCCC CCTTTACCTT TCCCGATTCC TCCGCGGAAG

A K V R Q S V A S P S I

CTTCGACGGA AGTAGTTACT AACTCTCGTT TCACAGGTC AACTTACCCC AAGTA-----5'

5' - TGCCTTCATCAATGATTGAGAGCAAAGTGTCCAGTTGAATGGGGTTCATGAAGCT

F S G E D I I S L L T D

ATATTAAACC ATGTTAAGAA CCAATCATTT TACTTAAGTA CTTCCATAGG TCACGATGGT

GATCATGGAA ATCTTCATTA CAGGTCTGCT TTTGGGGGCC AGTCTTTTAC TGTCCATCGG

I M E I F I T G L L L G

ACCGCAGAAT GTACTGGTGA TTAACAAGG AATTAAGCGC GAAGGACTCA TTGCGGTTCT

P Q N V L V I K Q G I K

If these bases are coding parts of a nucleic acid sequence, they need to be grouped into triplets, with the corresponding three-letter amino acid directly below the triplet. Number the amino acids in order every 5 amino acids. Do NOT use TAB codes between amino acid numbers. Use space character.

TCTCGTGTGT TTAATTTCTG ACGTCTTTT GTTCATCGCC GGCACCTTGG GCGTTGATCT
L V C L I S D V F L F I
TTTGTCCAAT GCCGCGCCGA TCGTGCTCGA TATTATGCGC TGGGGTGGCA TCGCTTACCT
L S N A A P I V L D I M
GTTATGGTTT GCCGTCATGG CAGCGAAAGA CGCCATGACA AACAAGGTGG AAGCGCCACA
L W F A V M A A K D A M T
GATCATTGAA GAAACAGAAC CAACCGTGCC CGATGACACG CCTTTGGGCG GTTCGGCGGT
I I E E T E P T V P D
GGCCACTGAC ACGCGCAACC GGGTGCGGGT GGAGGTGAGC GTCGATAAGC AGCGGGTTTG
A T D T R N R V R E V
GGTAAAGCCC ATGTTGATGG CAATCGTGCT GACCTGGTTG AACCCGAATG CGTATTTGGA
V K P M L M A I V L T W
CGCGTTTGTG TTTATCGGCG GCGTCGGCGC GCAATACGGC GACACCGGAC GGTGGATTTT
A F V F I G G V G A Q Y
CGCCGCTGGC GCGTTCGCGG CAAGCCTGAT CTGGTTCCCG CTGGTGGGTT TCGGCGCAGC
A A G A F A A S L I W F
AGCATTGTCA CGCCCGCTGT CCAGCCCCAA GGTGTGGCGC TGGATCAACG TCGTCGTGGC
A L S R P L S S P K V W

5' CTAC TGGCGTAACC GGTAGTTTGA CTACAACTAC CCAATCAAAA GCGCCCAAAA
AGTTGTGATG ACCGCATTGG CCATCAAAC TATGTTGATG GGTAGTTTT CGCGGG 5' M L
V V M T A L A I K L
CCTTAGCCAC CGGAAGCGGG TTTACAACTA CGGCCGCGAGC ACCCTTTAGA GTAGCTAGCG
S D T A K A W I N I G A
GAGGTTGAGC CGCAGTCTTT TGAGGTTCAA CAACTCACTT AGTTCCGACA ACAGGTCGAC
E L E A D S F E L N N
GAGTTGACTG CTTCGTGGTT AGTTACGTGA CCAGTGCCAT AGGCGCGGCA TGAGAGGAAC
E V S S A G I L A S T
GAGCGCGTCG TGGGTACGTT CGCGGTAGAC GCGTTCCTTG ACGGGCGCAA GGACCCGCTA
E R L V W A L A M Q A L
CAGTAACTCG AACGCCTGGT ATAGTTATAA CAAGTGCAAG TTGTACGGGA GTCTGTCCCT
D N L K R V M D I N N V
GAATGGGACC GACCGCGCCC TTGGGAGACC TTAAGGTAGC TCTATAAACA GGCACCTCGTC
K G Q S A R S G E P I
CGGGACGCGT TCACCACTCT TTCGTTACTG CGGTTCTGGT AACAACCGTC GACTGACGTT
G Q A L P S F A I V G L

Represent nucleoside by a single strand only, in the 5' to 3' direction

GTTCAAGAGT GGCAGTAGCG GGCCAAGGAG GTGGGTGCT AATTACTACC TTATCGAACC
L N E G D D G P E E V W

GACTACTTAG TCTTCGCCCG TCGGGAGGAG GCGGTA[.]CTTG AGTCGGCGGA GGCGACACTC
Q H I L L P C G E E A

GAGACCTGGC ATCCTTCTTT ATGGGTGCAT TTCTCGGAAA GGTCTGCGTT GTTACAGTGC
E P G Y S S I G V Y L A

. /orf3+

GTTACGCATG TACCAAAGAA GGTTTCCTCA TAGA
L A Y M T E E L P T D